

NUMBER 5, MAY, 1971

- 495 M. WIEDERHOLT, W. J. SULLIVAN, and GERHARD GIEBISCH. Potassium and sodium transport across single distal tubules of *Amphiuma*. With an Appendix by Peter F. Curran and A. K. Solomon. Analysis of tracer behavior
- 526 THOMAS E. ANDREOLI and DANIEL C. TOSTESON. The effect of valinomycin on the electrical properties of solutions of red cell lipids in *n*-decane
- 539 ROBERT SHAPLEY. Fluctuations of the impulse rate in *Limulus* eccentric cells
- 557 ROBERT SHAPLEY. Effects of lateral inhibition on fluctuations of the impulse rate
- 576 L. A. BEAUGÉ and NORMA ADRAGNA. The kinetics of ouabain inhibition and the partition of rubidium influx in human red blood cells
- 593 ROBERT B. GUNN and DANIEL C. TOSTESON. The effect of 2,4,6-trinitro-*m*-cresol on cation and anion transport in sheep red blood cells
- 610 C. M. GARY-BOBO and A. K. SOLOMON. Effect of geometrical and chemical constraints on water flux across artificial membranes
- 623 RAIMUNDO VILLEGAS, GLORIA M. VILLEGAS, REINALDO DiPOLO, and JORGE

VILLEGAS. Nonelectrolyte permeability, sodium influx, electrical potentials, and axolemma ultrastructure in squid axons of various diameters